

Fig. 1

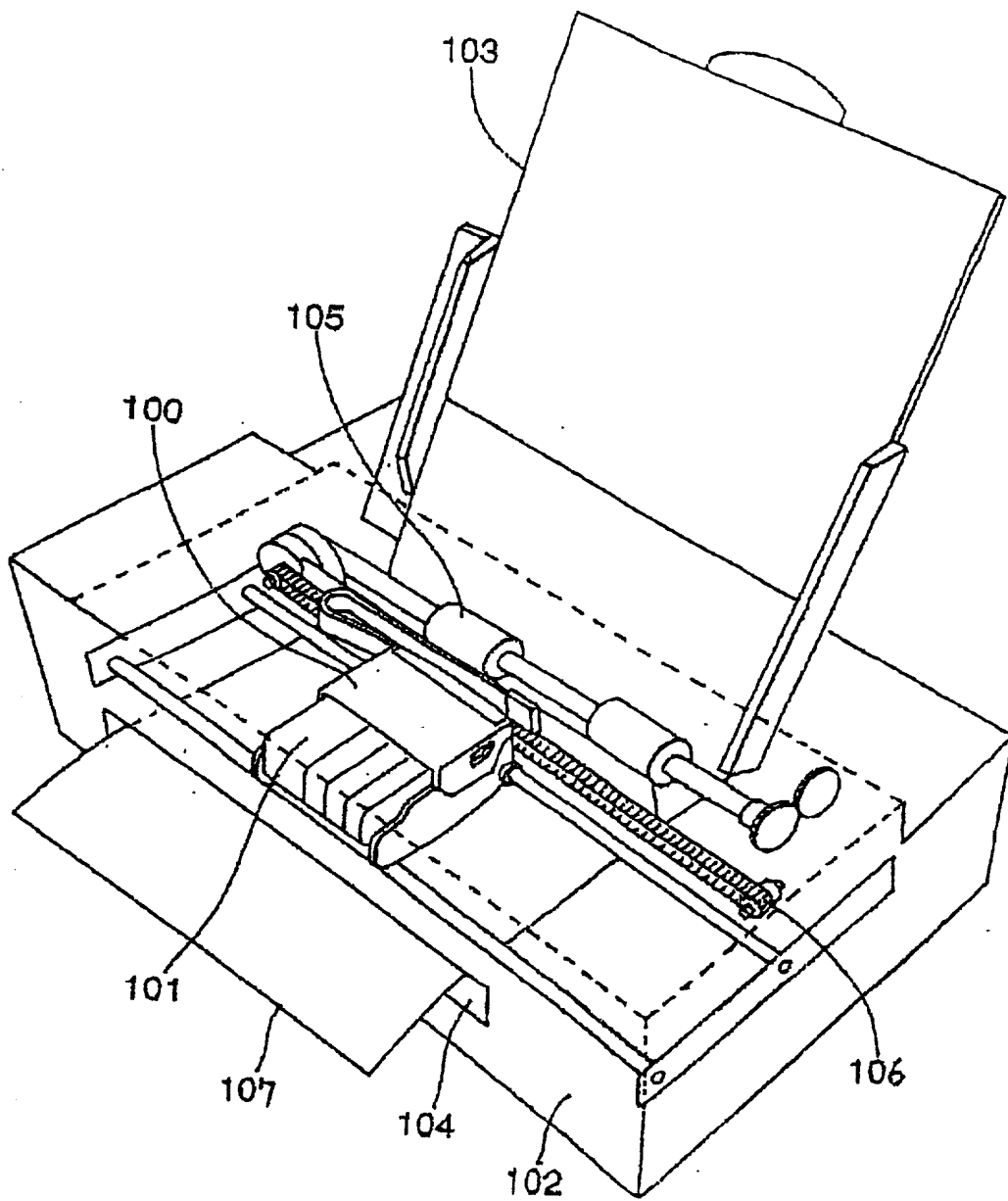


Fig. 2

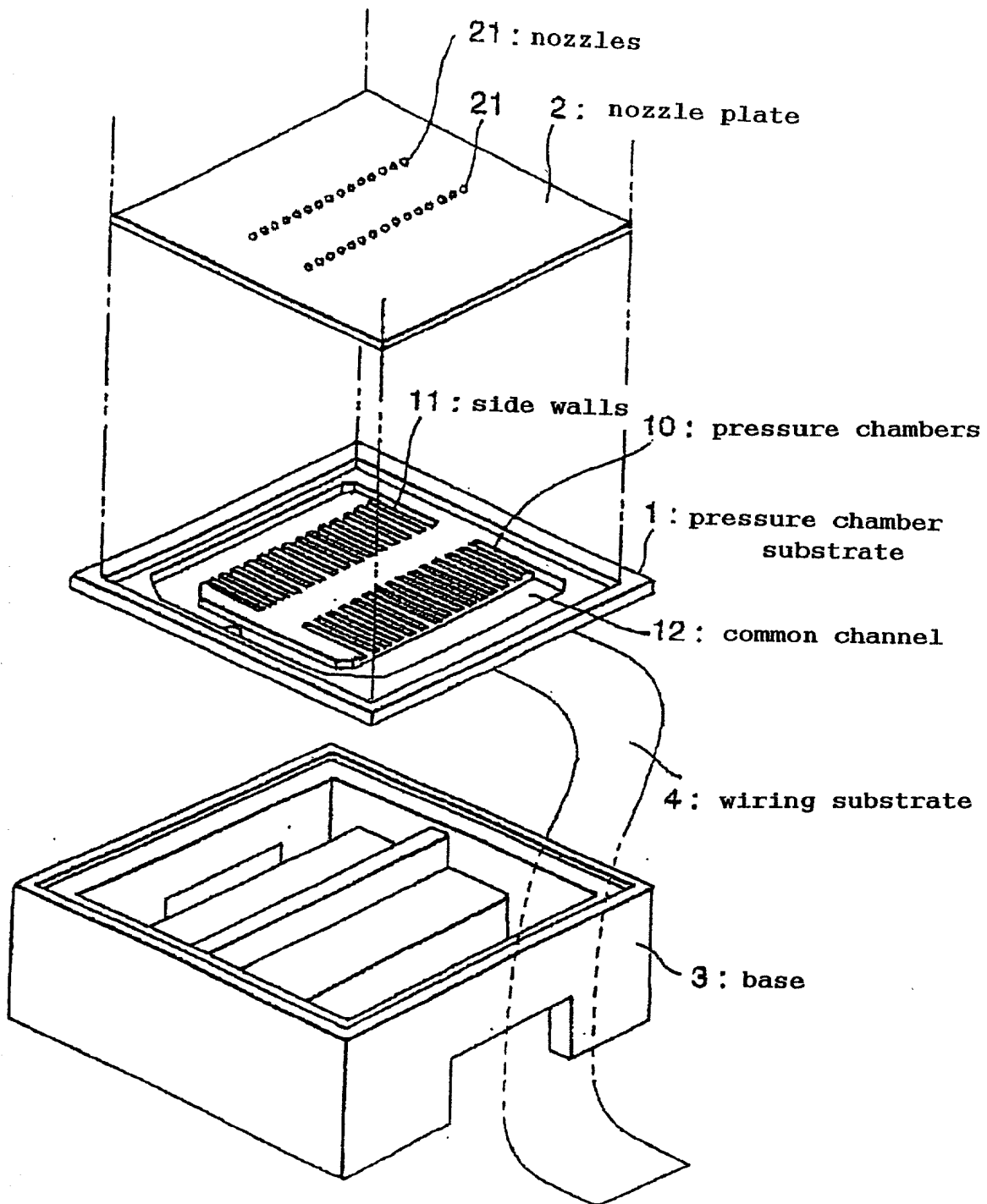
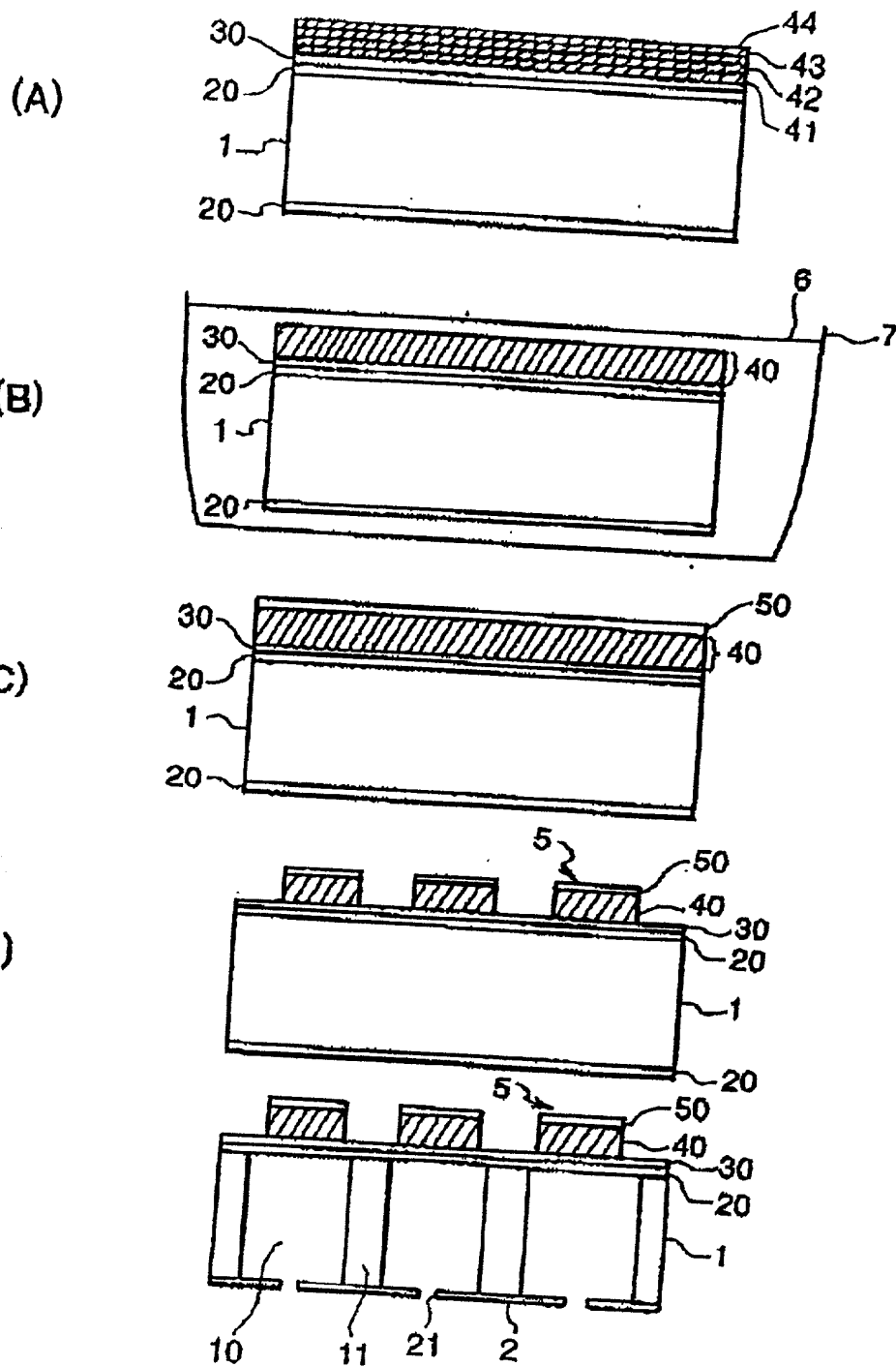


Fig. 3



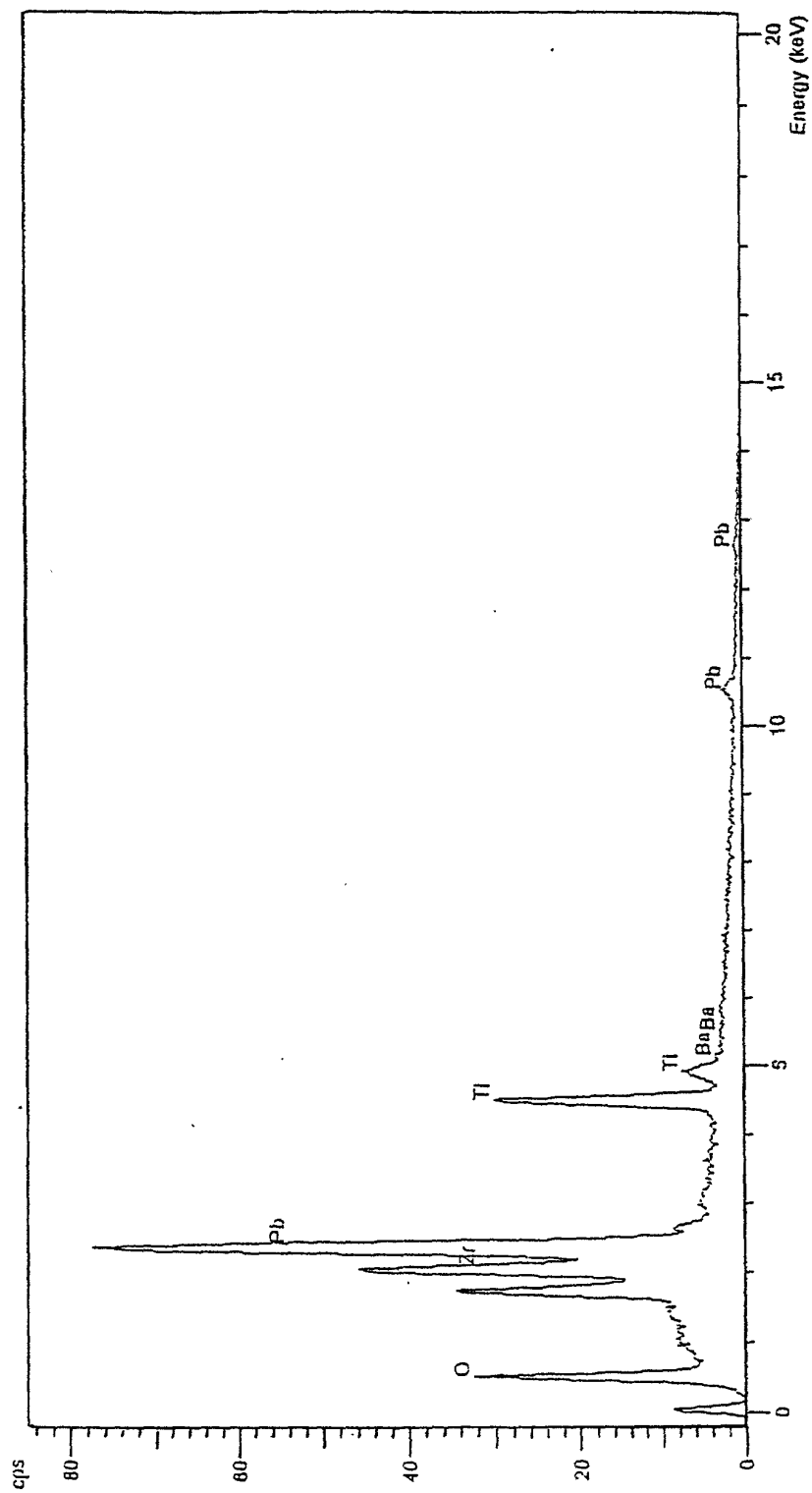
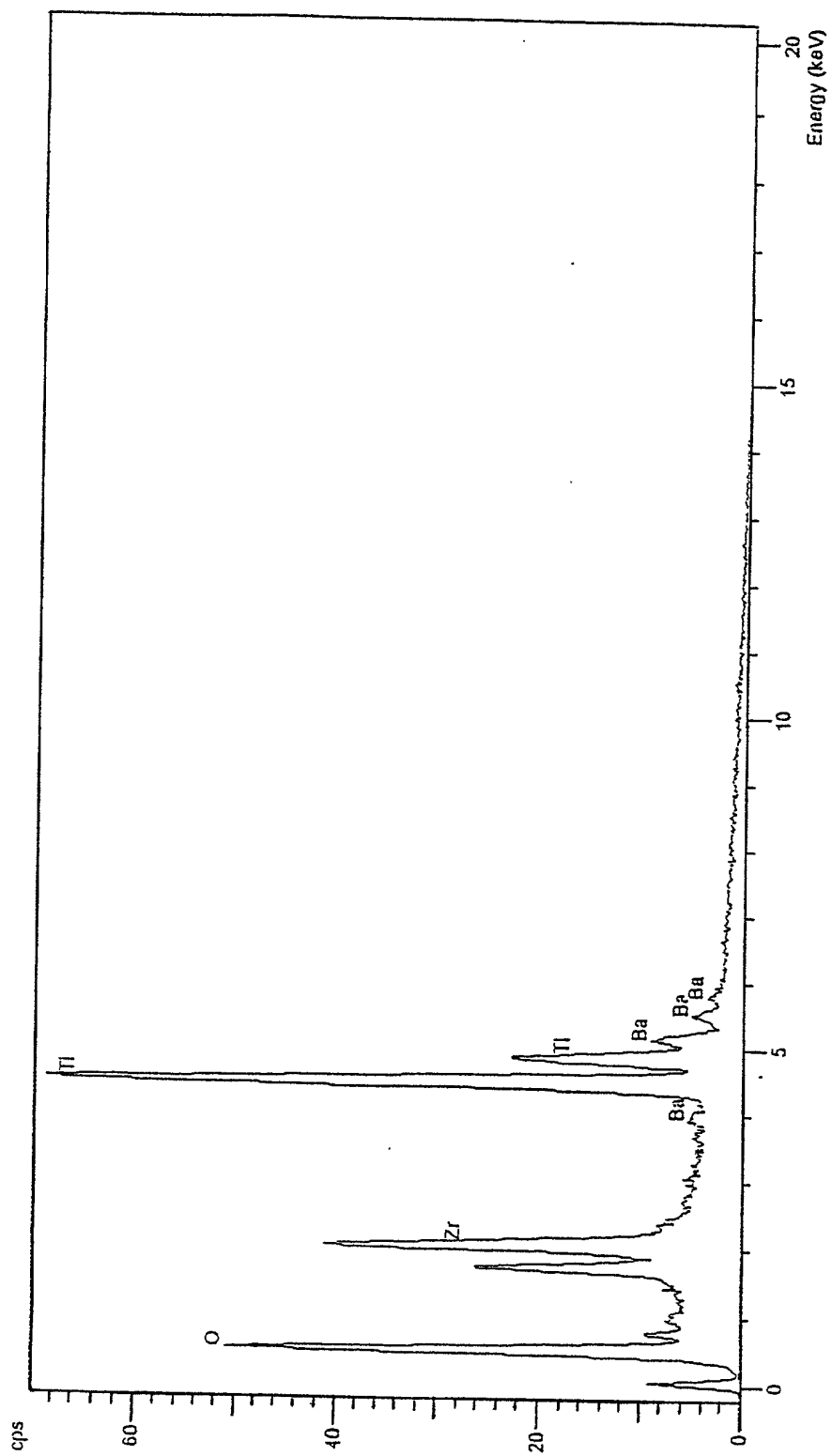


Fig. 4

[illegible]

5. 7. 19

9. 67.4

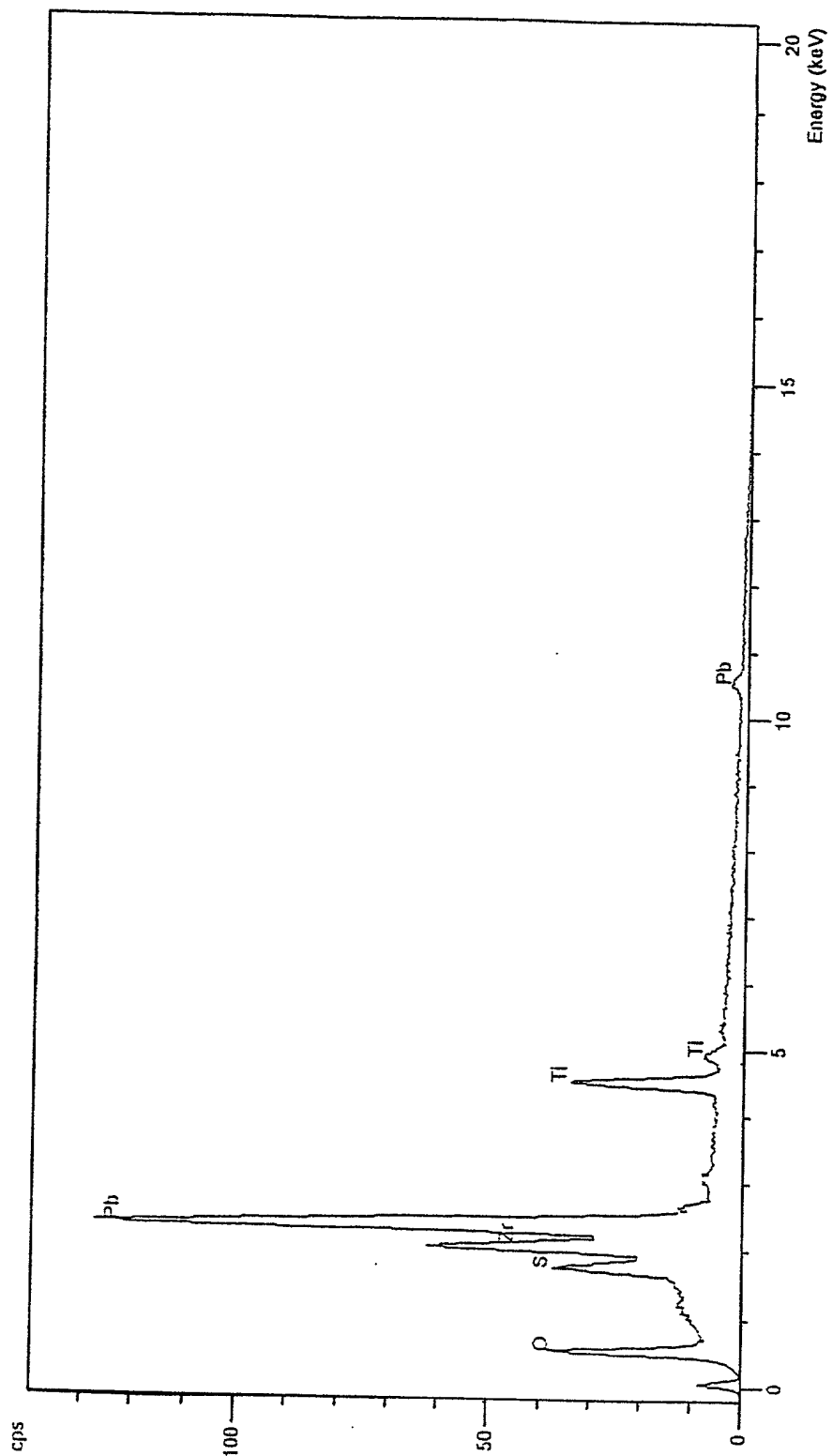
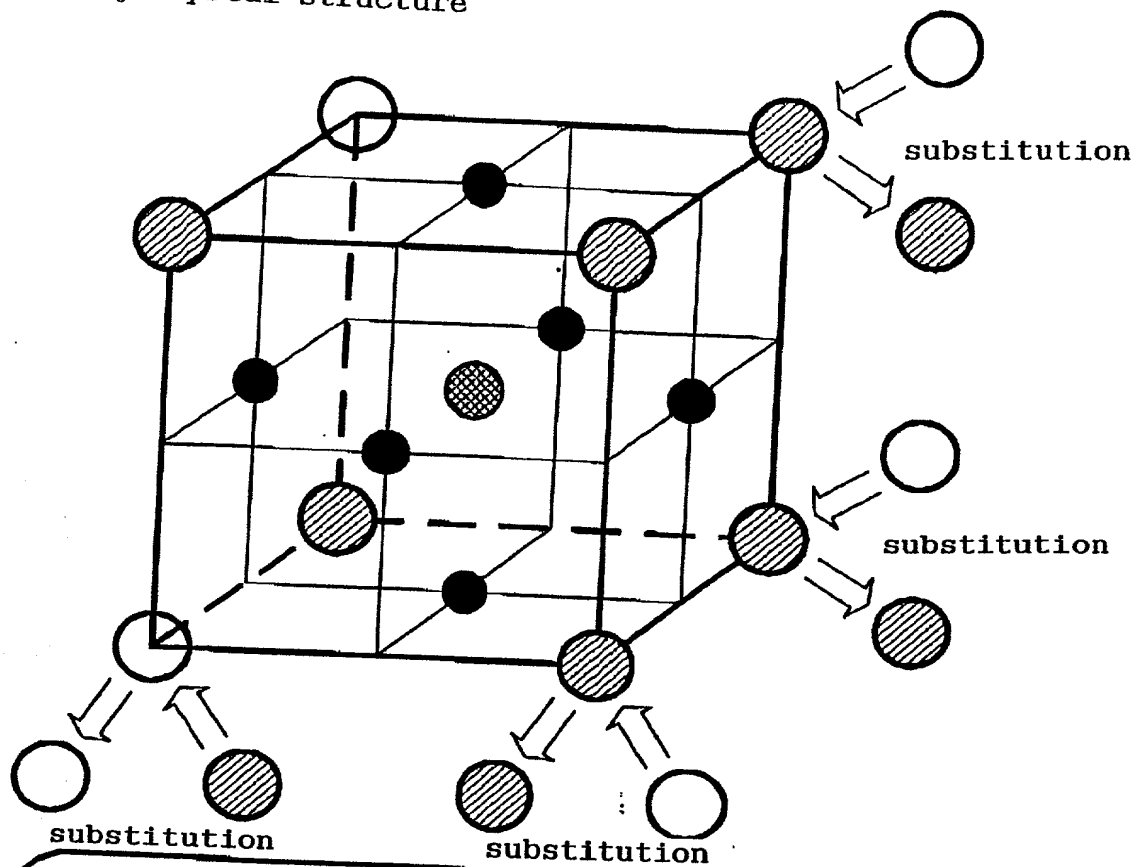


Fig. 7

ABO<sub>3</sub> crystal structure







Element :  (eg, Pb) or  (eg, Ba, Sr, La, Ca)  
 Element :  (eg, Zr, Ti)  
 Element :  (eg, O)

Fig. 8

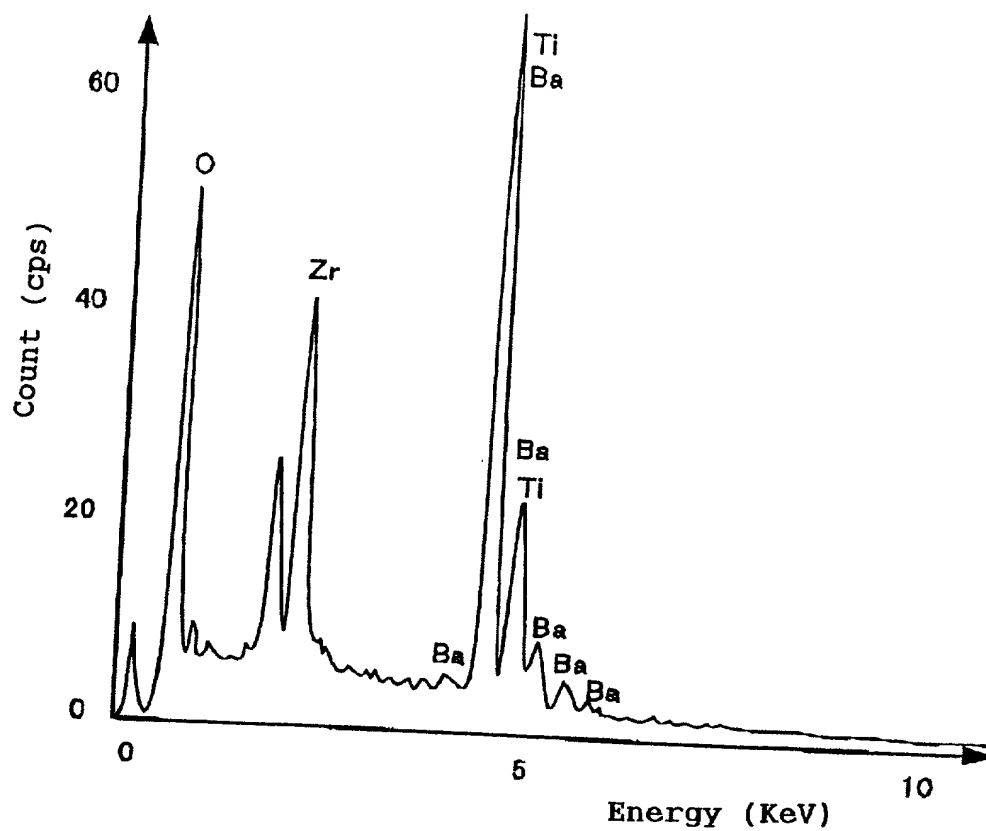


Fig. 9

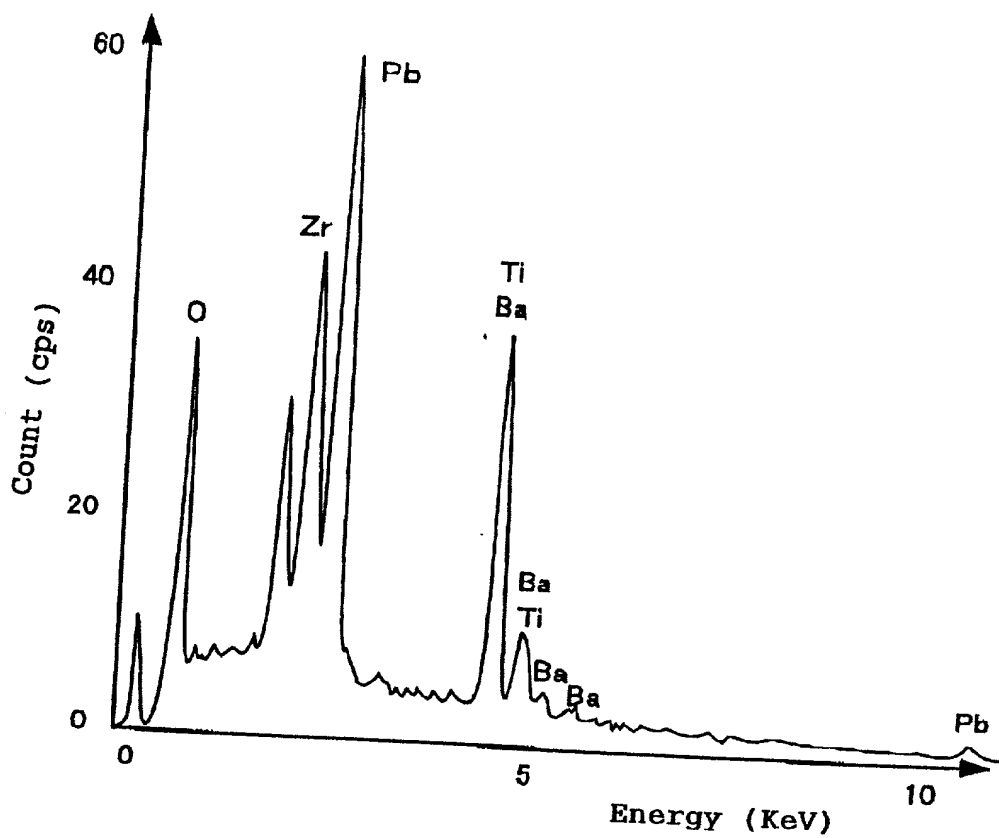


Fig. 10

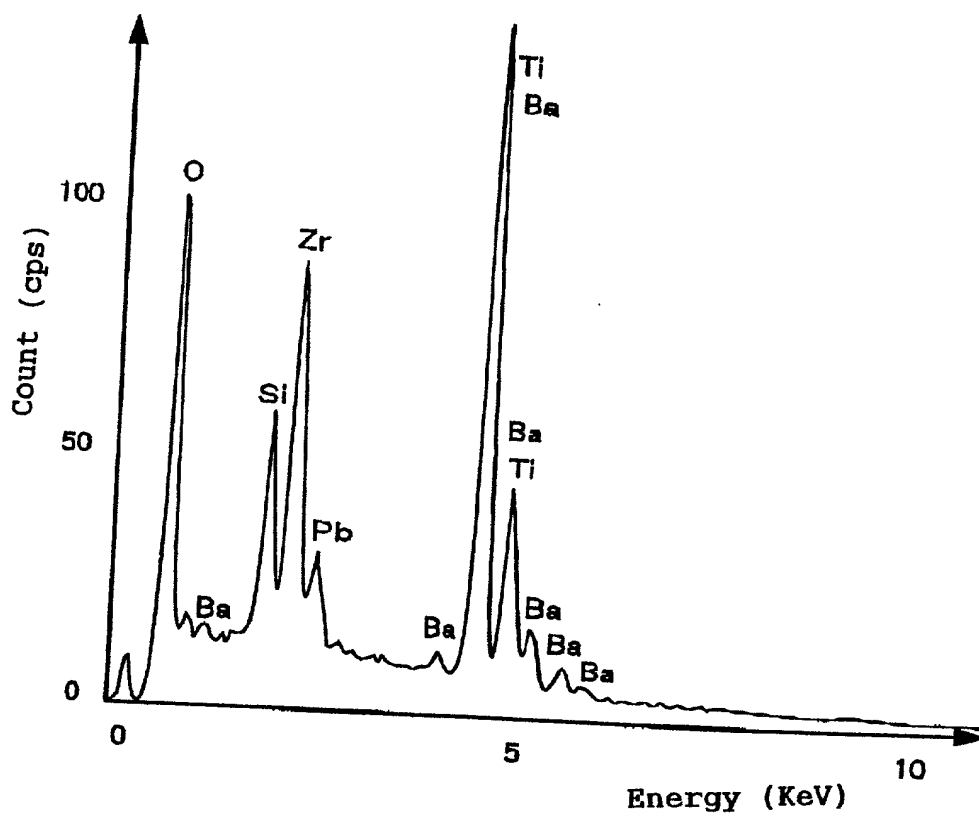


Fig. 11

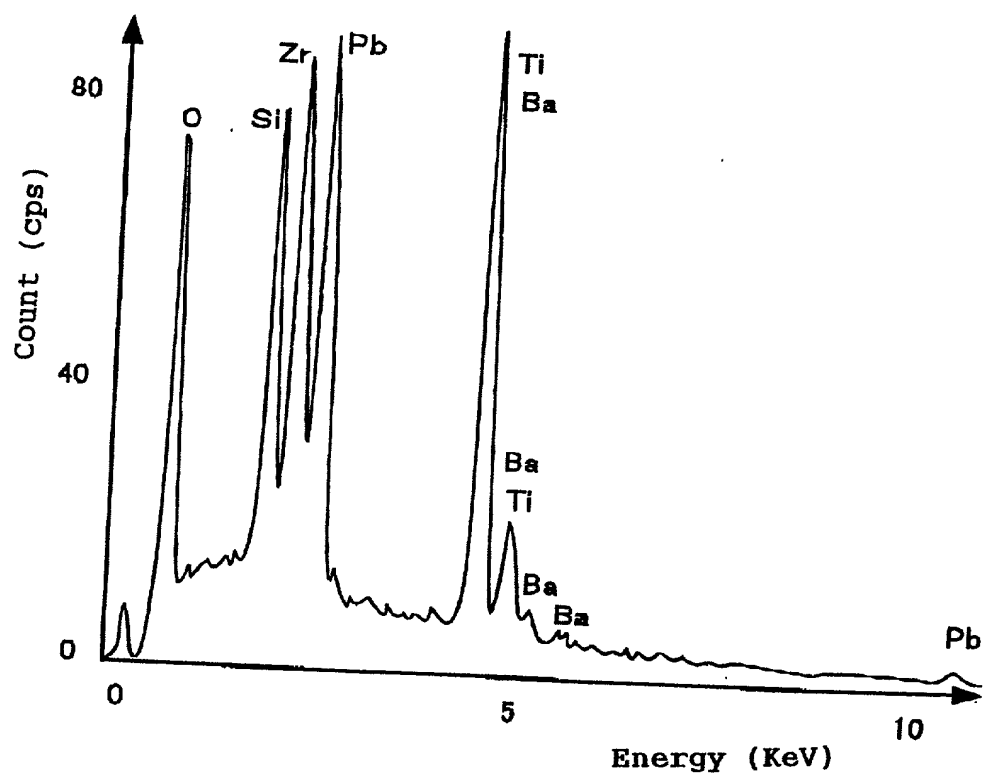


Fig. 12

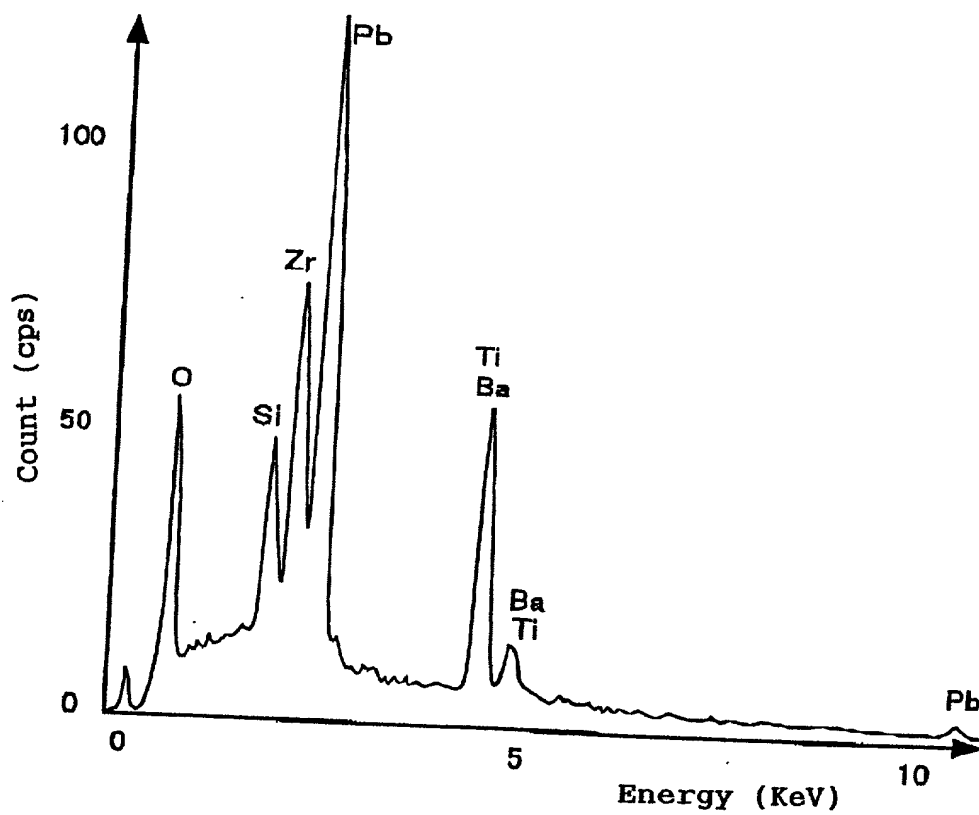


Fig. 13

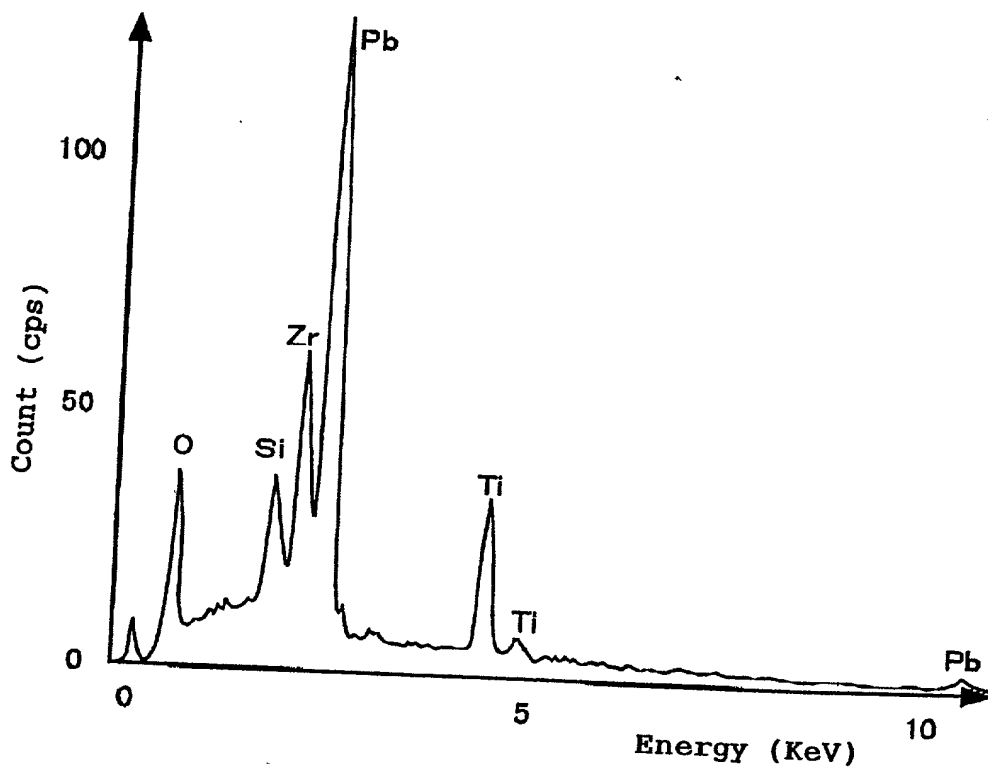


Fig. 14

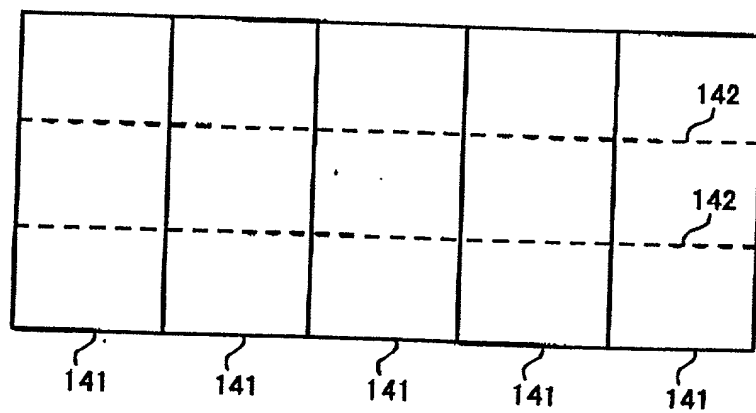
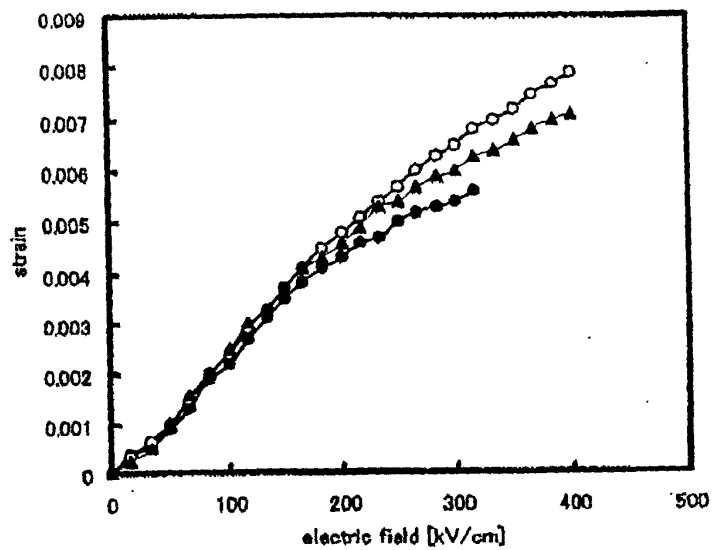


Fig. 15



Electric field strength dependence of strain

●—● dislocation: 4 layers  
 ▲—▲ layers 3 layers  
 ○—○ 1 layer

Note: Ultimate strain indicates the strain limit at which the film breaks.